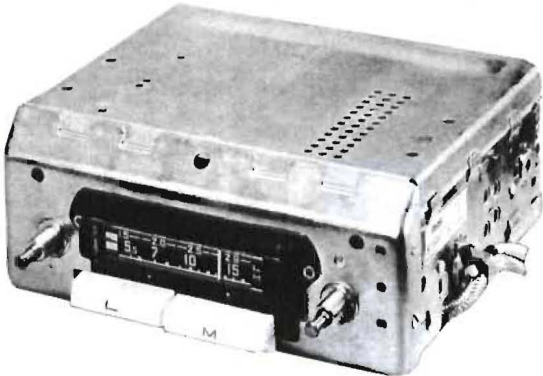
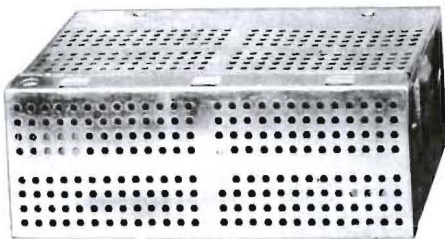




BLAUPUNKT
MODEL "Bremen"



| | | | |
|------------------------|---|-----------|---|
| TRADE NAME | Blaupunkt Model BREMEN (Above Serial #G140001) | | |
| IMPORTER | Robert Bosch Corp., 40-25 Crescent St., Long Island City 1, N. Y. | | |
| TYPE SET | Battery Operated BC-LW Automobile Receiver | | |
| TUBES | Four | | |
| POWER SUPPLY | 6 Volt (Or) 12 Volt Storage Battery | RATING | 4.8 Amp@6.3Volts DC (Or) 2.4Amp@12.6 Volts DC |
| TUNING RANGE—BROADCAST | 520-1650KC | LONG WAVE | 140KC-300KC |

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.

| | | |
|----------------------------|---------------------|--|
| Suggested alignment tools: | A1, A2, A3, A4..... | General Cement #5009, 8195, 8274, 8275, 8728, 8987 |
| | | Walsco #2531 |
| | A5..... | General Cement #9050L, 9150 |
| | | Walsco #2521 |
| | A6, A7..... | General Cement #8721, 8722 |
| | | Walsco #2519 |
| | A9..... | General Cement #5004, 5008, 5009 |
| | | Walsco #2520 |
| | A10, A11..... | General Cement #9050L, 9150 |
| | | Walsco #2521 |

| | DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POS. | RADIO DIAL SETTING | OUTPUT METER | ADJUST | REMARKS |
|----|---------------|--|----------------------------|------------------|--------------------|-------------------|----------------|----------------------------|
| 1. | Fig 1 | Thru dummy antenna to Pin 2 of ECH81(VI) | 460KC (400% Mod.) | M | High end stop | Across voice coil | A1, A2, A3, A4 | Adjust for maximum output. |
| 2. | " | " | " | " | " | " | A5 | Adjust for MINIMUM output. |
| 3. | " | " | 1100KC | " | 1100KC | " | A6, A7 | Adjust for maximum output. |
| 4. | " | " | 520KC | " | 520KC | " | A8, A9 | " |
| 5. | " | " | 250KC | L | 250KC | " | A10, A11 | " |

With radio installed in car and antenna fully extended, tune in a weak station near 1400KC and adjust A9 for maximum output.

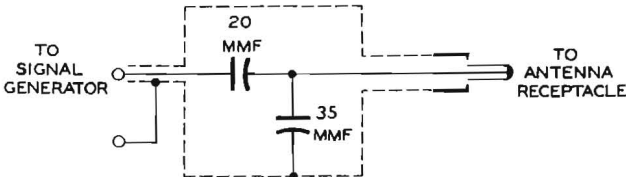


FIG. 1

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of H885

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1959 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

DATE 2-59

SET 432

FOLDER 5

BLAUPUNKT
MODEL "Bremen"

SET 432 FOLDER 5

PARTS LIST AND DESCRIPTIONS

TUBES (GENERAL ELECTRIC, SYLVANIA)

| ITEM No. | USE | TYPE | ITEM No. | USE | TYPE |
|----------|--------------|-----------|----------|-------------------|-----------|
| V1 | Mixer-Osc. | 6CH8/6AJ8 | V3 | Det. -AVC-AF Amp. | 6BC9/6AV6 |
| V2 | IF Amplifier | 6EF8/6DA6 | V4 | Output | 6BL8/6BQ5 |

① Domestic type listed may not be directly interchangeable in some instances.

ELECTROLYTIC CAPACITORS

| ITEM No. | RATING | | REPLACEMENT DATA | | | | | |
|----------|--------|-------|--------------------|------------------|---------------------------|------------------|------------------|------------------|
| | CAP. | VOLT. | BLAUPUNKT PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | PYRAMID PART No. | SANGAMO PART No. |
| C1A | 32 | 385 | K0781/24x | | | | | |
| B | 32 | 385 | | | | | | R2600 * |
| C2 | 50 | 18 | K0742/9n | PR825V50 | BBR50-25 | TC29 | TD-50-25 | MT-0250 |
| C3 | 50 | 18 | K0742/9n | PR825V50 | BBR50-25 | TC29 | TD-50-25 | MT-0250 |
| C4 | 50 | 15 | | | | | | |

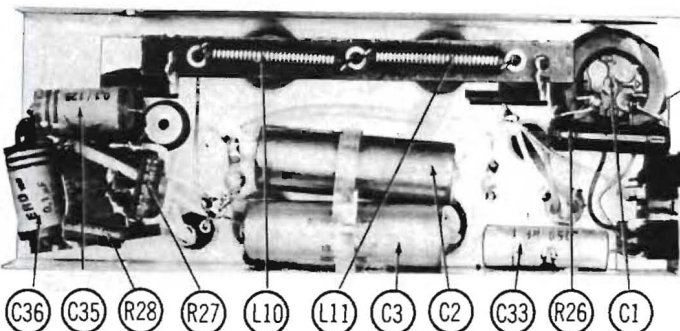
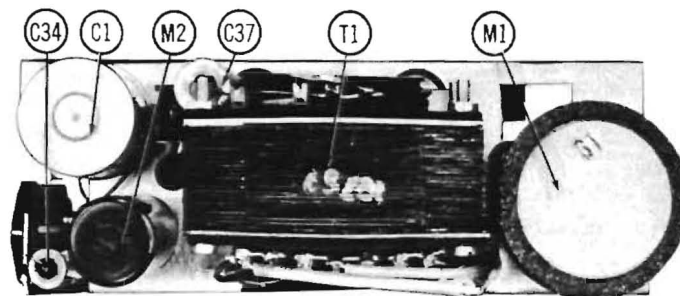
* Not normally in distributors stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

| ITEM No. | RATING | | REPLACEMENT DATA | | | | | | NOTES |
|----------|--------|-------|--------------------|------------------|---------------------------|------------------|------------------|------------------|-------|
| | CAP. | VOLT. | BLAUPUNKT PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | PYRAMID PART No. | SANGAMO PART No. | |
| C5 | 10-60 | | TK8/15x | | | | | | |
| C6 | 360 | | K0809/71n | | | | | | 2.5% |
| C7 | 60 | | K0842/71n | | | | | | 2% |
| C8 | 65 | | K0842/73n | | | | | | 2% |
| C9 | 50 | | K0845/51n | | | | | | 10% |
| C10 | .05 | 250 | K0788/68n | P488N-05 | DF-503 | CUB485 | GEM-415 | 4TM-85 | |
| C11 | .01 | 500 | K0792/41n | P488N-01 | D6-103 | CUB481 | GEM-611 | 6TM-81 | |
| C12 | .05 | 500 | K0792/48n | P688N-05 | DF-503 | CUB485 | GEM-415 | 4TM-85 | |
| C13 | 480 | | K0809/72n | | | | | | 2.5% |
| C14 | 35 | | K0101/7x | | | | | | 2% |
| C15 | 60 | | K0842/71n | | | | | | 10% |
| C16 | 30 | | K0843/50n | NPO-S130 | TCZ-30 | CTA8Q3C | | | 2.5% |
| C17 | 480 | | K0809/72n | | | | | | |
| C18 | .01 | 500 | K0792/41n | P688N-01 | D6-103 | CUB481 | GEM-611 | 6TM-81 | |
| C19 | .005 | 500 | K0792/67n | P688N-005 | D6-502 | CUB6D5 | GEM-625 | 6TM-D5 | |
| C20 | 100 | | | SI-100 | D6-101 | LT8T1 | UC-531 | 5GA-T1 | |
| C21 | .005 | 500 | K0792/67n | P688N-005 | D6-502 | CUB6D5 | GEM-625 | 6TM-D5 | |
| C22 | 50 | | K0845/51n | NPO-S1 50 | D6-500 | CTA8Q51C | ZT-545 | 5TCC-Q5 | ① |
| C23 | .1 | 125 | K0788/68n | | | | GEM-201 | 2WF-P10 | 10% |
| C24 | .025 | 250 | K0788/65n | P488N-025 | D6-502 | CUB6D5 | GEM-4125 | 4TM-825 | 10% |
| C25 | .005 | 500 | K0792/67n | P488N-005 | D6-502 | CUB6D5 | GEM-625 | 6TM-D5 | |
| C26 | .005 | 500 | K0792/67n | P488N-005 | D6-502 | CUB6D5 | GEM-625 | 6TM-D5 | |
| C27 | 100 | | | SI 100 | D6-101 | LT8T1 | UC-531 | 5GA-T1 | ① |

POWER CHASSIS



PARTS LIST AND DESCRIPTIONS (Continued)

CAPACITORS (cont)

| ITEM No. | RATING | | REPLACEMENT DATA | | | | | | NOTES |
|----------|--------|-------|--------------------|------------------|---------------------------|------------------|------------------|------------------|-------|
| | CAP. | VOLT. | BLAUPUNKT PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | PYRAMID PART No. | SANGAMO PART No. | |
| C28 | .01 | 500 | K0792/41n | P488N-01 | D6-103 | CUB481 | GEM-611 | 6TM-81 | |
| C29 | .005 | 1000 | K0778/86n | P1088N-005 | DD16-502 | CUB10D5 | GEM-1025 | 10TM-D5 | |
| C30 | .05 | 500 | K0792/48n | P688N-05 | DF-503 | CUB6S5 | GEM-615 | 6TM-55 | |
| C31 | .05 | 250 | K0788/66n | P488N-05 | DF-503 | CUB485 | GEM-415 | 4TM-85 | |
| C32 | | | | | | | | | |
| C33 | .05 | 350 | K0784/48n | P488N-05 | DF-503 | CUB485 | GEM-415 | 4TM-85 | |
| C34 | .1 | 125 | K0770/65n | | | | GEM-201 | 2WF-P10 | 10% |
| C35 | .1 | 125 | K0788/69n | | | | GEM-201 | 2WF-P10 | 10% |
| C36 | .1 | 125 | K0788/69n | | | | GEM-201 | 2WF-P10 | 10% |
| C37 | .025 | 1000 | K0802/45n | P1088N-025 | DF-503 | CUB485 | GEM-415 | 4TM-85 | |
| C38 | .05 | 250 | K0788/66n | P488N-05 | DF-503 | CUB485 | GEM-415 | 4TM-85 | ② |

① Some versions may use 90mmf in this application (Part#K0845/57n).
② Not used in some versions.

CONTROLS

| ITEM No. | RATING | | REPLACEMENT DATA | | | | | INSTALLATION NOTES |
|----------|------------|-------|--------------------|---------------------------|--------------------|--------------|------------------|-------------------------|
| | RESISTANCE | WATTS | BLAUPUNKT PART No. | CORNELL-DUBILIER PART No. | CLAROSTAT PART No. | IRC PART No. | MALLORY PART No. | |
| R1A | 2meg | | W12185/3x | | | | | Tone Volume, Tap @ 300K |
| B1 | 1.3meg | | | | | | | |
| C1 | Switch | | | | | | | |

COILS (RF-IF)

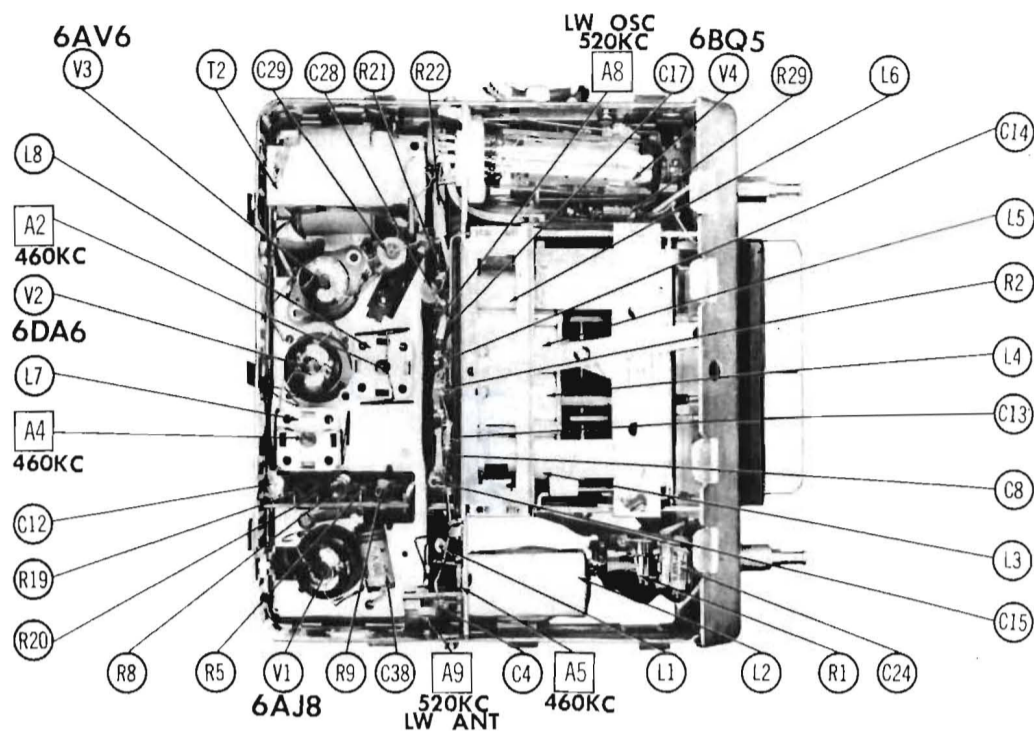
| ITEM No. | USE | REPLACEMENT DATA | | | | | NOTES |
|----------|----------------|--------------------|-------------------|----------------|-----------------|--------------|------------------|
| | | BLAUPUNKT PART No. | Meissner PART No. | Merit PART No. | Miller PART No. | Rom PART No. | |
| L1 | Ant. Coll | WC2199/2x | | | | | |
| L2 | IF Trap | ZF720/10x | | | | | |
| L3 | LW Ant. Coll | WC2201/5x | | | | | |
| L4 | BC Ant. Coll | WC2204/2x | | | | | |
| L5 | LW Osc. Coll | WC2202/3x | | | | | |
| L6 | BC Osc. Coll | WC2205/2x | | | | | |
| L7 | 1st IF | ZF721/1x | 16-8780 | | | | |
| L8 | 2nd IF | ZF721/2x | 16-8780 | | | | |
| L9 | Flt. Choke | WC2115/1x | | | | | |
| L10 | "A" Lead Choke | ED706/1x | | | | | 4.7 Microhenries |
| L11 | "A" Lead Choke | ED706/1x | | | | | 12 Microhenries |

VIBRATOR

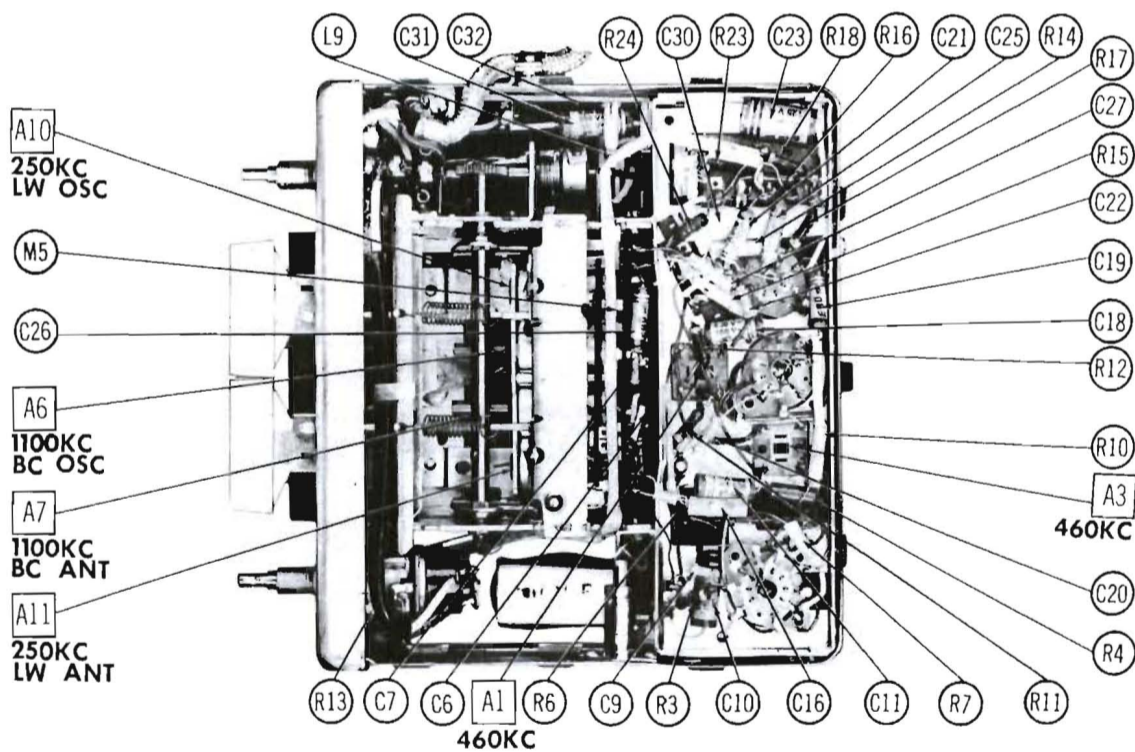
| ITEM No. | TYPE | INPUT VOLTS | FREQUENCY | REPLACEMENT DATA | | | NOTES |
|----------|-------------|-------------|-----------|----------------------|---------------------------|------------------|-------------------------------------|
| | | | | BLAUPUNKT PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | |
| M1 | Interrupter | 6V 12V | 115% 115% | SM702/1x SM702/2x | | | 6 Volt Versions 12 Volt Versions |

SELENIUM RECTIFIER

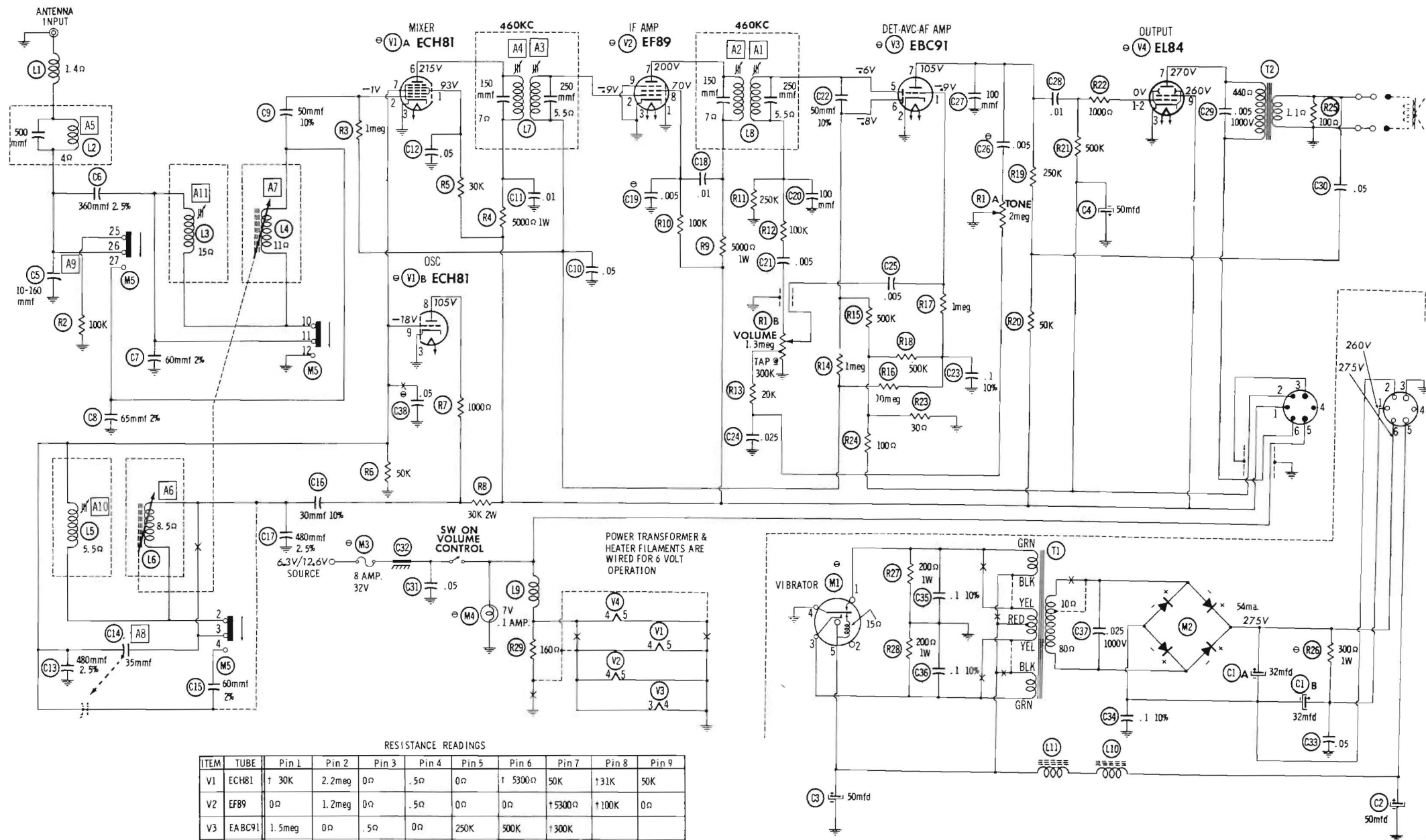
| ITEM No. | RATING | | REPLACEMENT DATA | | | | NOTES |
|----------|---------|-------|--------------------|------------------|------------------------|-----------------|-------|
| | CURRENT | VOLTS | BLAUPUNKT PART No. | FEDERAL PART No. | INTERNATIONAL PART No. | SARKES PART No. | |



CHASSIS-TOP VIEW

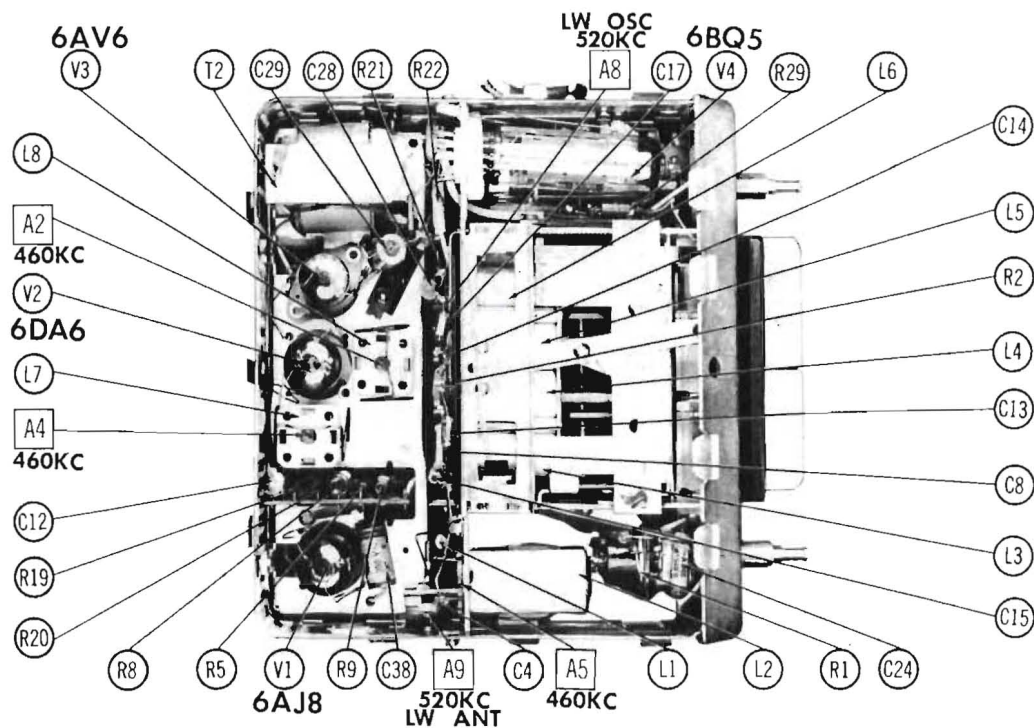


CHASSIS-BOTTOM VIEW

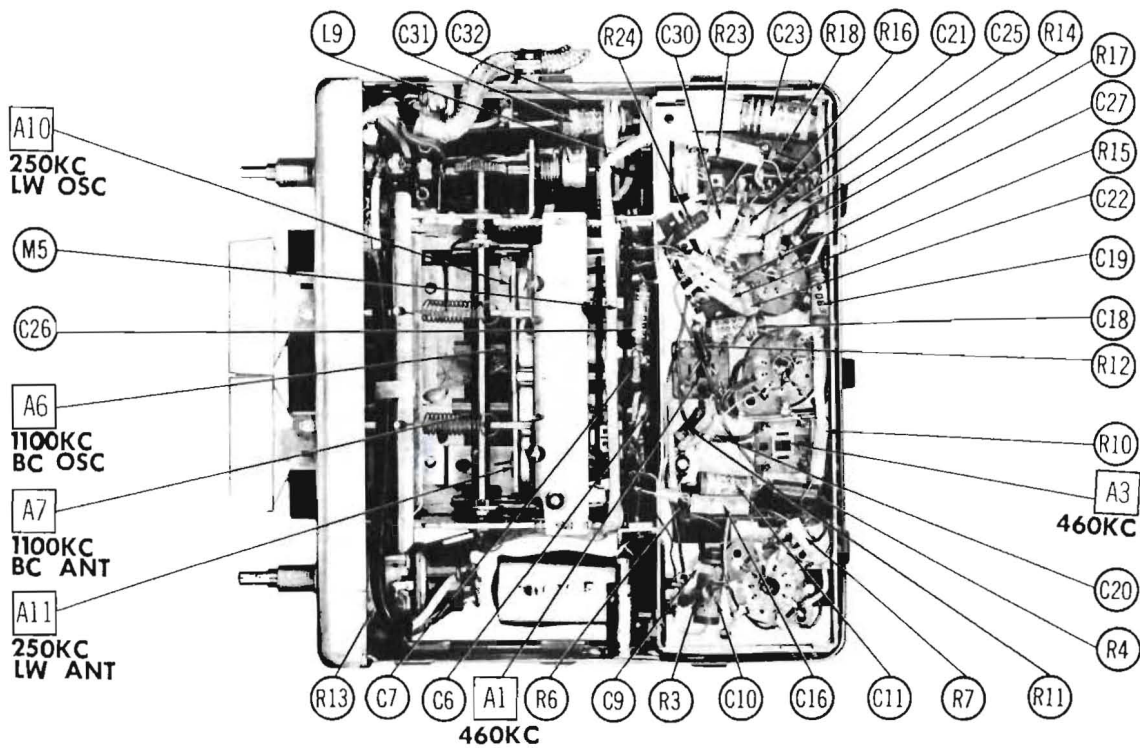


SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

- DC voltage measurements taken with vacuum tube voltmeter.
- Socket connections shown as bottom views.
- Measured values are from socket pin to common negative.
- Battery voltage maintained at 6.3 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage



CHASSIS-TOP VIEW



CHASSIS-BOTTOM VIEW

PARTS LIST AND DESCRIPTIONS (Continued)

CAPACITORS (cont)

| ITEM No. | RATING | | BLAUPUNKT PART No. | AEROVOX PART No. | REPLACEMENT DATA | | | NOTES |
|----------|--------|------|--------------------|------------------|--------------------|---------------------------|------------------|---------|
| | CAP. | VOLT | | | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | |
| C28 | .01 | 500 | KO792/ 41n | P488N-01 | D6-103 | CUB6S1 | GEM-611 | 6TM-S1 |
| C29 | .005 | 1000 | KO778/ 66n | P1088N-005 | DD16-502 | CUB10D5 | GEM-1025 | 10TM-D5 |
| C30 | .05 | 500 | KO792/ 48n | P688N-05 | DF-503 | CUB6S5 | GEM-615 | 6TM-S5 |
| C31 | .05 | 250 | KO788/ 66n | P488N-05 | DF-503 | CUB4S5 | GEM-415 | 4TM-S5 |
| C32 | | | | | | | | |
| C33 | .05 | 350 | KO784/ 48n | P488N-05 | DF-503 | CUB4S5 | GEM-415 | 4TM-S5 |
| C34 | .1 | 125 | KO770/ 65n | | | | GEM-201 | 2WF-P10 |
| C35 | .1 | 125 | KO788/ 69n | | | | GEM-201 | 2WF-P10 |
| C36 | .1 | 125 | KO788/ 69n | | | | GEM-201 | 2WF-P10 |
| C37 | .025 | 1000 | KO802/ 45n | P1088N-025 | | | | |
| C38 | .05 | 250 | KO788/ 66n | P488N-05 | DF-503 | CUB4S5 | GEM-415 | 4TM-S5 |

- ① Some versions may use 90mmf in this application (Part #KO845/ 57n).
② Not used in some versions.

CONTROLS

| ITEM No. | RATING | | BLAUPUNKT PART No. | CENTRALAB PART No. | CLAROSTAT PART No. | IRC PART No. | MALLORY PART No. | INSTALLATION NOTES |
|----------|------------|---------------|--------------------|--------------------|--------------------|--------------|------------------|-----------------------|
| | RESISTANCE | WATTS | | | | | | |
| RIA | 2meg | $\frac{1}{2}$ | W12185/ 3x | | | | | Tone Volume, Tap@300K |
| B | 1.3meg | $\frac{1}{2}$ | | | | | | |
| C | Switch | | | | | | | |

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

| ITEM No. | RATING | | BLAUPUNKT PART No. | NOTES | ITEM No. | RATING | | BLAUPUNKT PART No. | NOTES |
|----------|--------|------|--------------------|-------|----------|--------|------|--------------------|-------|
| | OHMS | WATT | | | | OHMS | WATT | | |
| R2 | 100K | | W1782/ 70n | | R16 | 10meg | | W1782/ 97n | |
| R3 | 1meg | | W1782/ 85n | | R17 | 1meg | | W1782/ 85n | |
| R4 | 5000Ω | 1 | W1802/ 50n | | R18 | 500K | | W1782/ 80n | |
| R5 | 30K | | W1782/ 62n | | R19 | 250K | | W1782/ 77n | |
| R6 | 50K | | W1782/ 65n | | R20 | 50K | | W1782/ 65n | |
| R7 | 1000Ω | | W1782/ 40n | | R21 | 500K | | W1782/ 80n | |
| R8 | 30K | 2 | W1812/ 62n | | R22 | 1000Ω | | W1782/ 40n | |
| R9 | 5000Ω | 1 | W1802/ 50n | | R23 | 30Ω | | W1782/ 17n | |
| R10 | 100K | | W1782/ 70n | | R24 | 100Ω | | W1782/ 25n | |
| R11 | 250K | | W1782/ 77n | | R25 | 100Ω | | W1782/ 25n | |
| R12 | 100K | | W1782/ 70n | | R26 | 300Ω | 2 | | |
| R13 | 20K | | W1782/ 60n | | R27 | 200Ω | 1 | W1802/ 29n | |
| R14 | 1meg | | W1782/ 85n | | R28 | 200Ω | 1 | W1802/ 29n | |
| R15 | 500K | | W1782/ 80n | | R29 | 160Ω | | W1782/ 28n | |

Note 1. Some versions may use 500Ω 2 W in this application (Part #W1804/ 28n).

TRANSFORMER (POWER)

| ITEM No. | RATING | | | BLAUPUNKT PART No. | Halldorson PART No. | Merit PART No. | Ram PART No. | Stancor PART No. | Thordarson PART No. | Triod PART No. |
|----------|----------------|--------------|--------|--------------------|---------------------|----------------|--------------|------------------|---------------------|----------------|
| | PRI. | SEC. 1 | SEC. 2 | | | | | | | |
| T1 | 12V or 6V @ 1A | 240V @ .055A | | TF722/ 10z | | | | | | |

TRANSFORMER (AUDIO OUTPUT)

| ITEM No. | Turns Ratio | | BLAUPUNKT PART No. | Halldorson PART No. | Merit PART No. | Ram PART No. | Stancor PART No. | Thordarson PART No. | Triod PART No. | NOTES |
|----------|-------------|------|--------------------|---------------------|----------------|--------------|------------------|---------------------|----------------|-------|
| | PRI. | SEC. | | | | | | | | |
| T2 | 30 | : 1 | TF27/ 52z | | | | | | | |

COILS (RF-IF)

| ITEM No. | USE | BLAUPUNKT PART No. | REPLACEMENT DATA | | | | NOTES |
|----------|----------------|--------------------|-------------------|----------------|-----------------|--------------|------------------|
| | | | Meissner PART No. | Merit PART No. | Miller PART No. | Ram PART No. | |
| L1 | Ant. Coll | WC2199/ 2z | | | | | |
| L2 | IF Trap | ZF720/ 10z | | | | | |
| L3 | LW Ant. Coll | WC2201/ 5z | | | | | |
| L4 | BC Ant. Coll | WC2204/ 2z | | | | | |
| L5 | LW Osc. Coll | WC2202/ 3z | | | | | |
| L6 | BC Osc. Coll | WC2205/ 2z | | | | | |
| L7 | 1st IF | ZF721/ 1z | 16-8780 | | | | |
| L8 | 2nd IF | ZF721/ 2z | 16-8780 | | | | |
| L9 | Flt. Choke | WC2115/ 1z | | | | | 4.7 Microhenries |
| L10 | "A" Lead Choke | ED706/ 1z | | | | | 12 Microhenries |
| L11 | "A" Lead Choke | ED706/ 1z | | | | | 12 Microhenries |

VIBRATOR

| ITEM No. | TYPE | INPUT VOLTS | FREQUENCY | BLAUPUNKT PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | RADIART PART No. | NOTES |
|----------|-------------|-------------|-----------|-----------------------|---------------------------|------------------|------------------|-------------------------------------|
| | | | | | | | | |
| M1 | Interrupter | 6V 12V | 115v 115v | SM702/ 1 z SM702/ 2 z | | | | 6 Volt Versions 12 Volt Versions |

SELENIUM RECTIFIER

| ITEM No. | RATING CURRENT (Measured) | BLAUPUNKT PART No. | REPLACEMENT DATA | | | NOTES |
|----------|---------------------------|--------------------|------------------|------------------------|-------------------------|----------------|
| | | | FEDERAL PART No. | INTERNATIONAL PART No. | SARKES TARZIAN PART No. | |
| M2 | .054A | XZ737/ 2x | | | D-64 ① | ① Silicon Type |

FUSES

| ITEM No. | TYPE | RATING | REPLACEMENT DATA | | | | | |
|----------|------|---------|--------------------|-----------|---------------------|--------|---------------|--------|
| | | | BLAUPUNKT PART No. | | LITTELFUSE PART No. | | BUSS PART No. | |
| | | | FUSE | HOLDER | FUSE | HOLDER | FUSE | HOLDER |
| M3 | | 8A 32V① | SG704/ 1N ① | FA741/ 9N | | | | |

① 4 Amp Fuse #SG704/ 3N Used in 12 volt version.

MISCELLANEOUS

| ITEM No. | PART NAME | BLAUPUNKT PART No. | NOTES |
|----------|---------------|--------------------|-----------------------------|
| M4 | Lamp | GL701/ 1x | 7V, 0.1A (6 Volt Versions) |
| M5 | Lamp | GL701/ 2x | 14V, 0.1A (12Volt Versions) |
| | Switch | NP2306/ 15z | Band, Complete With Colls |
| | Printed Board | NP2309/ 3z | |
| | Plug | SE718/ 1x | Connecting Cable |
| | Socket | FA717/ 1x | Connecting Cable |
| | Socket | FA716/ 1x | Vibrator |

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

| NAME | PART NO. | DESCRIPTION |
|-------------|------------|--|
| Push Button | KF792/ 1 z | Long Wave, Ivory, Includes Rubber Gasket |
| Push Button | KF792/ 2 z | Medium Wave, Ivory, Includes Rubber Gasket |
| Push Button | KF792/ 3 z | Long Wave, Brown, Includes Rubber Gasket |
| Push Button | KF792/ 4 z | Medium Wave, Brown, Includes Rubber Gasket |

WIRING DATA

| | |
|-------------------------------------|---|
| General-use Unshielded Hook-up Wire | Use BELDEN No. 8530 (Solid) Available in Ten Colors |
| Shielded Hook-up Wire | 8524 (Stranded) Available in Ten Colors |
| Bonding Strap | Use BELDEN No. 8885 |
| | Use BELDEN No. 8861 |